

# CITY OF LODI

COMMUNICATION

## COUNCIL C

AGENDA TITLE: Acacia Street and Washington Street - Intersection Control, Resurvey

MEEING DATE: October 2, 1991

PREPARED BY: Public Works Director

RECOMMENDED ACTION: No Action

BACKGROUND INFORMATION: At the August 21, 1991 City Council meeting, a citizen

expressed a concern regarding speed control on South Washington Street in the vicinity of Acacia Street. At that meeting City Council directed Public Works staff to

resurvey this location for four-way stops. This location was previously studied for four-way stops at the request of citizens in the area (by petition) and was presented to City Council at the January 2, 1991 meeting. Four-way stop guidelines (Caltrans) were not satisfied, however, Council did approve the conversion from yield signs to stop signs on Acacia Street at Washington Street.

Another concern expressed at that meeting was the slight alignment offset of Washington Street at Acacia Street. At the February 20, 1991 meeting, City Council approved the modification of the street centerlines on Washington Street at Acacia Street to provide a smoother transition through the intersection. This work was completed in March of 1991.

Staff reviewed accidents on the segment of Washington Street from Kettleman Lane to Watson Street. Two-way traffic is permitted along the entire length of this segment with the exception of the portion between Concord Street and Poplar Street which is one-way for southbound traffic.

A review of available accident records on the segment of Washington Street from Kettleman Lane to Watson Street indicates there has been two accidents since the previous study in January. In total, from 1987 to the present there have been eleven accidents in this segment (Exhibit A). None of these accidents were identified as being speed related. Poplar Street was the only intersection in this segment of Washington Street with accidents (right angle) that would be correctable with the installation of four-way stops. These two accidents occurred in 1987 and both involved westbound drivers failing to yield to southbound vehicles. No accidents have occurred at this intersection since the yield signs were changed to stop signs.

Staff previously surveyed vehicle speeds on Washington Street over a three-day period from July 18-20, 1989. The results of this survey are shown on Exhibit B.

APPROVED. Thos. U. Siterson

**THOMAS A. PETERSON** 

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#### Resurvey Results

As shown on the attached Exhibit C, Caltrans guidelines for the installation of four-way stops are not satisfied at this location. There have been no accidents correctable with the installation of four-way stops at this intersection and traffic volumes are far below the required minimums. The volume split on Washington Street and on Acacia Street is 68% and 32%, respectively. Ideally, volume splits at four-way stop locations should be equal. Four-way stop warrants were also performed for the intersection of Poplar Street and Washington Street as part of a 1989 study. Correctable accidents and traffic volumes were far below the required minimums at this location also. Council did approve the conversion from yield to stop controls on Poplar Street at Washington Street at that time. Since the time of this study, there have been no additional correctable accidents.

The result of staff's survey of vehicle speed for approximately 1,600 vehicles on Washington Street in the vicinity of Acacia Street indicates that 92% of the motorists drive 31 mph or less and 63% at 25 mph or below. This is not unusual for streets with 25 mph speed limits.

#### Discussion

As Council is aware, studies indicate that the installation of stop signs has little er no effect on reducing overall vehicle speeds except at the immediate vicinity of the stop sign. In many cases, speeds will increase on segments adjacent to stop signs as drivers will attempt to "make-up" travel time after having to stop at an unwarranted stop sign. In addition to an increase in speeds, unneeded stop signs may increase accidents (particularly rear-end accidents), waste time and energy, create air and noise pollution, and encourage noncompliance at needed stop signs.

#### Recommendation

Based on the study results and the proven ineffectiveness of stop signs used for speed control, staff does not recommend the installation of four-way stop signs at Acacia Street and Washington Street or any other intersection along %hissegment. Increased enforcement is the most effective way to control excessive speeds. The speed data used in this study will be sent to the Police Department for their review.

FUNDING: None.

Jack L. Ronsko Public Works Director

Prepared by Rick S. Kiriu, Senior Engineering Technician

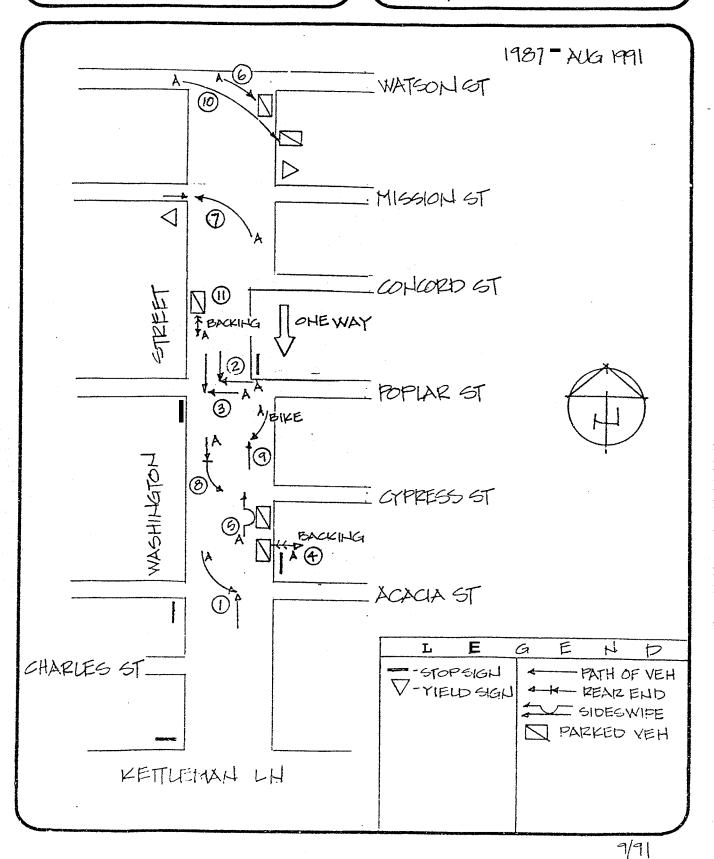
JLR/RSK/n1



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

WASHINGTON STREET WATSON TO KETTLEMAN - COLLISION DIAGRAM -- EXISTING TRAFFIC CONTROLS

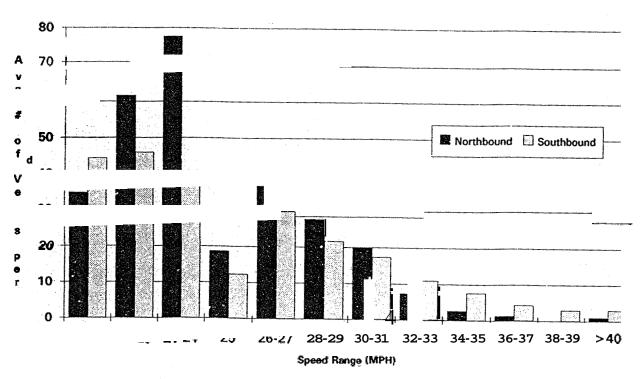


LOCATION: WASHINGTOH-WARSON POKET YEAR(S): 1987-AUG 1991

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PD #	No.	DATE	TIME	DAMAGE	INJURED	APPARENT CAUSE (A)		
97-9229		6-15-87	1957	LAM-dom	3	FAILURE TO YIELD		
37-1353	2	6-17-87	1936	MOD-MOD	0	FAILURE TO YIELD . HATTENTION		
37-16900	3	10-28-87	1246	LAM-LAM	1	FAILURE TO YIFLD		
87-17293	4	11-4-87	1655	MIH-MIM	0	UNGAFE BACKING		
58-453	5	1-9-33	0300	MIN-UHK	0	HITERUN		
38-1390	0	1-25-33	1820	11AJ-110D	0	CHEAFE TURN, HAD BEEN DRINKING		
38-1346	7	2-3-88	0818	MIN-MIH	0	DRIVING ON WRONG GIDE, FOGGED WINDOW		
38-13459	8	8-12-88	2144	NHK-WIH	0	FOLLOWING FOCLOSE, HIT & RUN		
70-8003	9	7-14-90	2018	MIH-MIH	<u> </u>	EIKE ON WRONG SIDE OF POAD		
91-9185	10	8-10-91	2157	HOHE-MOD	0	DUI, DRNING ON WRONG SIDE		
71-9220		8-11-91	2017	MIM-MIH	0	HITERUN, UNGAFE STARTING FEOM PE		
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### Washington St @ Acacia St Speed Survey July 18-20,1989



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MULTI-WAY STOP SIGN WARRANTS

INTERSECTION OF ACACIA STREET and WASHINGTON STREET  DATE SEPT 13,1990  BY R. KIRIU							
Any of the following co							
1. Where traffic signals are warranted and the need is urgent, the four-way stop is an interim measure that can be installed quickly to control traffic while arrangements are being made for the signal installation,							
		Satisfied	Not Satisfied				
susceptible of corre	ection <b>by a</b> multi-v ccidents susceptib	five or more reported way stop installation le of correction inclu	in a 12-month				
Time period 16 Total number of acc	190 idents 0	Number of correcti Satisfied	ble accidents O Not Satisfied V				
3. Minimum volume warr	ant:						
must average at	least 500 vehicle	ng the intersection f s <b>per</b> hour for any ei	ght <b>hours</b> of an				
Hour							
highway must av with an average	erage at least 200	rian volume from the units per hour for treet vehicular traffi ximum hour.	he same eight hours				
Hour Winor Street 17 10 17 3 Pedestrians*  *1,449 PETE REPO	m/x/16/2009 12 19 12 17 19 TO GATISFY	Average per hour  Average per hour  Average units per ho  Satisfied	a.m. to p.m.  yehicles pedestrians (EST)  Not Satisfied				
4. When the 85-percentile approach speed of the major street traffic exceeds 40 miles per hour, the minimum vehicular volume warrant is 70 percent of the above requirements.							
requirements.		85-percentile speed_ Satisfied	MPH Not Satisfied				
A four-way STOP sign installation is a useful traffic control measure when other available means of control are not adequate. It should not be used unless the volume of traffic on the intersecting roads is about equal and is undesirable at							
low volume intersection	5.	<ul><li>7 Traffic major stre</li><li>7 Traffic minor stre</li></ul>	et 60 % 556 VPD et: 32 * 260 VPD				

CITY COUNCIL

DAVID M. HINCHMAN, Mayor JAMESW. PINKERTON. Jr. Mayor Pro Tempore PHIŁLIP A. PENNINO JACK A. SIEGLOCK JOHNR. (Randy) SNIDER

## CITY OF LODI

CITY HALL. 221 **WEST PINE** STREET **P.O.BOX** 3006 LOD!, CALIFORNIA 95241-1910 (209)334-5634 FAX(209) 333-6795
September 26, 1991

THOMAS A. PETERSON

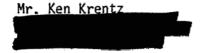
City Manager

ALICE M. REIMCHE

City Clerk

**BOB MCNATT** 

City Attorney



SUBJECT: Acacia Street and Washington Street Intersection Control, Resurvey

Enclosed is a copy of background information on an item that will be discussed at the City Council meeting on Wednesday, October 2, 1991, at 7:30 p.m. The meeting will be held in the City Council Chamber, Carnegie Forum, 305 West Pine Street. You are welcome to attend.

If you wish to communicate with the City Council, please contact Alice Reimche, City Clerk, at (209) 333-6702.

If you have any questions about the item, please call Paula Fernandez, Richard Prima or næ at (209) 333-6706.

Jack L. Ronsko

Public Works Director

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Enclosure

cc: City Clerk